(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 24 February 2005 (24.02.2005)

PCT

(10) International Publication Number WO 2005/016196 A1

(51) International Patent Classification7:

A61F 13/00

(21) International Application Number:

PCT/US2004/024611

(22) International Filing Date: 30 July 2004 (30.07.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/492,402

4 August 2003 (04.08.2003) US

(71) Applicant (for all designated States except US): TRUSTEES OF DARTMOUTH COLLEGE [US/US]; Technology Transfer Office, 11 Rope Ferry Road, Hanover, NH 03755-1404 (US).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): KITAREEWAN, Sutisak [TH/US]; 114 Upper Stonehouse Mountain Road, Ordford, NH 03777 (US). SLOBODA, Roger [US/US]; 150 Greensboro Road, Hanover, NH 03755 (US). DMITROVSKY, Ethan [US/US]; 35 East Wheelock Street, Hanover, NH 03755 (US).
- (74) Agents: LICATA, Jane, Massey et al.; Licata & Tyrrell P.C., 66 E. Main Street, Marlton, NJ 08053 (US).

(81) Designated States (unless otherwise indicated. for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

2005/016196 A1

(54) Title: COMPOSITIONS AND METHODS FOR DESTABILIZING LYSOSOMES TO INCREASE ONCOGENIC OR ABERRANT PROTEIN DEGRADATION

(57) Abstract: The present invention relates to compositions and methods for destabilizing lysosomes to increase the degradation of oncogenic or aberrant proteins for the prevention and treatment of disease. Methods for identifying agents which destabilize lysosomes are also provided as are agents identified in accordance with the screening method.